SEQUENCE LISTING

<110>   KOIZUMI, Takeshi
        NISHIYAMA, Yoko
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        OONAKA, Kenji

<120>   PRIMER AND PROBE FOR DETECTING VIBRIO CHOLERAE OR VIBRIO MIMICUS
        AND DETECTION METHOD USING THE SAME

<130>   Q88467

<140>   US 10/538,636
<141>   2005-06-10

<150>   PCT/JP03/15889
<151>   2003-12-11

<150>   JP 2002-362878
<151>   2002-12-13

<160>   64

<170>   PatentIn version 3.3

<210>   1
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<220>
<223>   Consensus sequence of Vibrio Cholerae and Vibrio mimicus gyrB

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caagcaccgt tgkctgtrgt rggtgakacw gagcgtaccg gtactaccgt acgtttctgg   180

ccwagygcac aracytttac caatatcgaa ttycattacg acattytggc taaacgyctg   240

cgtgagctgt cattcctgaa ytctggcgtg tcgatcaagc tgaysgatga rcgtgaagaa   300

gataaraaag accacttyat gtatgaaggk ggtattcaag cgtttgtkac ccacttgaac   360

cgyaayaaaa cgccratcca tgaraaagtm ttccacttya accaagagcg tgaagatggc   420

atcagcgtgg aagtggcrat gcagtggaay gatggtttcc aagaaaacat ctactgcttt   480

acyaacaaca tyccacagcg tgatggyggt acccayttag cyggtttccg tggtgcrttg   540

acccgtactt tgaacaacta yatggayaaa gaaggcttct cgaagaaagc scaagcrgca   600

acctcgggtg atgatgcgcg tgaaggctta acrgcdgtkg tdtcggtgaa agtrccrgat   660

cctaaattct cragccaaac caaagataag ctrgtttctt cggargtraa atccgcrgtt   720

gartcagcya tgaatgagaa gctggcrgat ttcctrgcgg aaaacccaag cgaagcgaaa   780

aacgtttgtt cgaagattat tgatgcrgcr cghgckcgtg aagcvgcgcg taaagcmcgk   840

gaaatgacyc gycgtaaagg cgcgytrgay ythgcwggyt trcch   885

<210> 2
<211> 822
<212> DNA
<213> Artificial Sequence

<220>
<223> Consensus sequence of Vibrio cholerae and vibrio mimicus rpoD

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caggcmgaag arctacgtct sactgayctg atttcwggtt tcgttgaycc taacgacatg     180

gaaaccgaag cgccaacygc kactcacatc ggttcwgarc tytctgaagc sgatctcgck     240

gatgaagatg aygmkgtcgy sgargatgaa gacgargatg aagaygaaga yggcgacggt     300

gaaagyagcg acagcgaaga agaagtsggt atygaccctg arctsgctcg tgagaaattc     360

aatgaactgc gcggyaagtt ccaaaacctg caattagcgg ttaatgaatt tggtcgtgac     420

agtmaycaag cwtctgaagc ktcarrcytr gtrytggata tyttccgyga attccgycta     480

acaccaaarc aattygacca yttggttgaa actctgcgya cytcratgga tcgtgttcgy     540

acccaagarc gyttggtrat gaaagcvgtr gttgaagtcg cgaaatgcc raagaaatcr      600

ttyatygcyc trtttacagg caatgaatcg aatgargart ggctbgataa agtvctygct     660

tctgayaarc cttaygtasm raaagtmcgt gagcaagaag amgakatycg ccgytcaaty     720

caraaactdc aratgatcga rcargagacw tcactgtctg ttgarcgyat caaagacatc     780

agccgtcgta tgtcwatcgg tgargcraaa gctcgccgtg cg                        822
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caagcaccgt tggctgtrgt rggtgakacw gagcgtaccg gtactaccgt acgtttctgg     180

ccwagygcac aracytttac caatatcgaa ttycattacg acattttggc taaacgcctg     240

cgtgagctgt cattcctgaa ytctggcgtg tcgatcaagc tgaycgatga acgtgaagaa     300

gataaaaaag accacttcat gtatgaaggg ggtattcaag cgtttgtgac ccacttgaac     360

cgyaayaaaa cgccratcca tgagaaagtc ttccacttta accaagagcg tgaagatggc     420
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(2/15)

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acyaacaaca tcccacagcg tgatggtggt acccayttag ccggtttccg tggtgcgttg    540

acccgtactt tgaacaacta yatggayaaa gaaggcttct cgaagaaagc scaagcggca    600

acctcgggtg atgatgcgcg tgaaggctta acggcwgtgg twtcggtgaa agtgccggat    660

cctaaattct cragccaaac caaagataag ctggtttctt cggaagtaaa atccgcrgtt    720

gartcagcya tgaatgagaa gctggcrgat ttcctagcgg aaaacccaag cgaagcgaaa    780

aacgtttgtt cgaagattat tgatgcrgcr cgygckcgtg aagcsgcgcg taaagcccgk    840

gaaatgactc gycgtaaagg cgcgytggat cttgcwggct taccc                   885


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caggccgaag agctacgtct cactgacctg atttcaggtt tcgttgaycc taacgacatg    180

gaaaccgaag cgccaaccgc gactcacatc ggttctgagc tttctgaagc ggatctcgcg    240

gatgaagatg atgctgtcgt cgaagatgaa gacgaagatg aagacgaaga tggcgacggt    300

gaaagcagcg acagcgaaga agaagtcggt atcgaccctg aactggctcg tgagaaattc    360

aatgaactgc gcggyaagtt ccaaaacctg caattagcgg ttaatgaatt tggtcgtgac    420

agtcatcaag cttctgaagc gtcagactta gtgytggata tcttccgtga attccgycta    480

acaccaaagc aattcgacca cttggttgaa actctgcgca cttcaatgga tcgtgttcgc    540

acccaagaac gtttggtrat gaaagcggta gttgaagtcg cgaagatgcc gaagaaatcg    600

ttcatcgccc tatttacagg caatgaatcg aatgaagagt ggctggataa agtccttgct    660

tctgacaagc cttacgtagc gaaagtccgt gagcaagaag aagagatccg ccgttcaatt    720

cagaaactac aaatgatcga gcaagagaca tcactgtctg ttgaacgcat caaagacatc    780

agccgtcgta tgtcaatcgg tgaggcraaa gctcgccgtg cg                       822


<210>   5
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<220>
<223>   Consensus sequence of Vibrio mimicus gyrB

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(3/15)

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ctgctbacca tttatcgtgg tggcaagatt cacacccaaa cttaccatca cggtgtgcca      120

caagcaccgt tgtctgtrgt gggtgagact gagcgtaccg gtactaccgt acgtttctgg      180

cctagtgcac agactttttac caatatcgaa ttccattacg acattctggc taaacgyctg      240

cgtgagctgt cattcctgaa ctctggcgtg tcgatcaagc tgacggatga gcgtgaagaa      300

gataagaaag accacttyat gtatgaaggt ggtattcaag cgtttgtkac ccacttgaac      360

cgtaayaaaa cgccgatcca tgaaaaagta ttccacttca accaagagcg tgaagatggc      420

atcagcgtgg aagtggcaat gcagtggaac gatggtttcc aagaaaacat ctactgcttt      480

accaacaaca tyccacagcg tgatggcggt acccacttag cyggtttccg tggtgcrttg      540

acccgtactt tgaacaacta catggacaaa gaaggcttct cgaagaaagc scaagcrgca      600

acctcgggtg atgatgcgcg tgaaggctta acrgcrgtkg tktcggtgaa agtrccrgat      660

cctaaattct cragccaaac caaagataag ctrgtttctt cggargtgaa atccgcggtt      720

gagtcagcca tgaatgagaa gctggcggat ttcctggcgg aaaacccaag cgaagcgaaa      780

aacgtttgtt cgaagattat tgatgcrgcr cghgctcgtg aagcvgcgcg taaagcacgt      840

gaaatgacyc gtcgtaaagg cgcgctagay ytmgctggtt tgccw                      885


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caggcagaag aactacgtct gactgayctg atttctggtt tcgttgatcc taacgacatg      180

gaaaccgaag cgccaactgc tactcacatc ggttcagarc tctctgaagc cgatctcgct      240

gatgaagatg acgaggtcgc ggaggatgaa gacgaggatg aagatgaaga cggcgacggt      300

gaaagyagcg acagcgaaga agaagtgggt attgaccctg agctcgctcg tgagaaattc      360

aatgaactgc gcggcaagtt ccaaaacctg caattagcgg ttaatgaatt tggtcgtgac      420

agtaaccaag catctgaagc ttcaagcctg gtactggata tyttccgcga attccgccta      480

acaccaaaac aatttgacca tttggttgaa actctgcgta cctcgatgga tcgtgttcgt      540

acccaagagc gyttggtgat gaaagcvgtg gttgaagtcg cgaaaatgcc aaagaaatca      600

tttattgcyc trtttacagg caatgaatcg aatgargaat ggctygataa agtrctcgct      660

tctgataarc cttatgtaca aaaagtacgt gagcaagaag acgatattcg ccgctcaatc      720
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caaaaactkc agatgatcga acargagact tcactgtctg ttgagcgtat caaagacatc   780

agccgtcgta tgtctatcgg tgaagcgaaa gctcgccgtg cg   822

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<210> 8
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<220>
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<400> 8   22
gaaytctggc gtgtcgatca ag

<210> 9
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<220>
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<400> 9   22
catrtagttg ttcaaagtac gg

<210> 10
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<212> DNA
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<220>
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<400> 10   25
ggatttyacy tccgaagaaa cyagc

<210> 11
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<400> 11   19
ygccagcttc tcattcatr

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<210>   13
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<220>
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<400>   13
caataatctt cgaacaaacg t                                                     21


<210>   14
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<400>   14
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<210>   16
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<220>
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<400> 17
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<210> 18
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<400> 18
cgacggtgaa agyagcgaca g   21

<210> 19
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<400> 19
caatgaactg cgcggyaagt t   21

<210> 20
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gtcacgacca aattcattaa c   21

<210> 21
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<400> 21
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<400> 23
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ggtggttaac gcgctytct   19

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tgagaaagtc ttccacttt   19

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<400>  31                                                                      21
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<210>  32
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<400>   34   18
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<210>   35
<211>   19
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<400>   35   19
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<210>   36
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<212>   DNA
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<210>   38
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<220>
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<400> 39
gcgaacacga tccattgaag tg   22

<210> 40
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<220>
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<220>
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ttctgaattg aacggcggat c   21

<210> 44
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<210> 45
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ggtagtgaat gccctgtca   19

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tgaaaaagta ttccacttc   19

<210> 48
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gttgaagtgg aatactttt   19

<210> 49
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<210> 50
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<210> 51
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gaggatgaag atgaagac


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<210>  56
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<210>  59
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acgaacacga tccatcgagg ta
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<210>  62
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<210>  63
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<400>  63                                                          19
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